

MOLODTSOV. 1. G.

VODNEY, G.G.; SHELKOV, A.K.; DIDENKO, V.Ye.; FILIPPOV, B.S.; TSAREV, M.H.;

ZASHVARA, V.G.; LITVINENKO, M.S.; MEDVEDEV, K.P.; MOLODISOV, I.G.;

LGALOV, K.I.; RUBIN, P.G.; SAPOZHNIKOV, L.M.; TYUTYUNNIKOV, G.R.;

DMITRIYEV, M.M.; LETTES, V.A.; LERHER, B.Z.; MEDVEDEV, S.M.; REVYAKIN,

A.A.; TAYCHER, M.M.; TSOGLIN, M.E.; DVORIN, S.S.; RAK, A.I.; OBUKHOV.

SKIY, Ya.M.; KOTKIN, A.M.; ARONOV, S.G.; VOLOSHIN, A.I.; VIROZUR, Ye.V.;

SHVARTS, S.A.; GINSBURG, Ya.Ye.; KOLYANDR, L.Ya.; BELETSKAYA, A.F.;

KUSHNEREVICH, M.R.; BRODOVICH, A.I.; NOSALEVICH, I.M.; SHTROMBERG, B.I.;

KUSHNEREVICH, M.R.; BRODOVICH, A.I.; NOSALEVICH, I.M.; SHTROMBERG, B.I.;

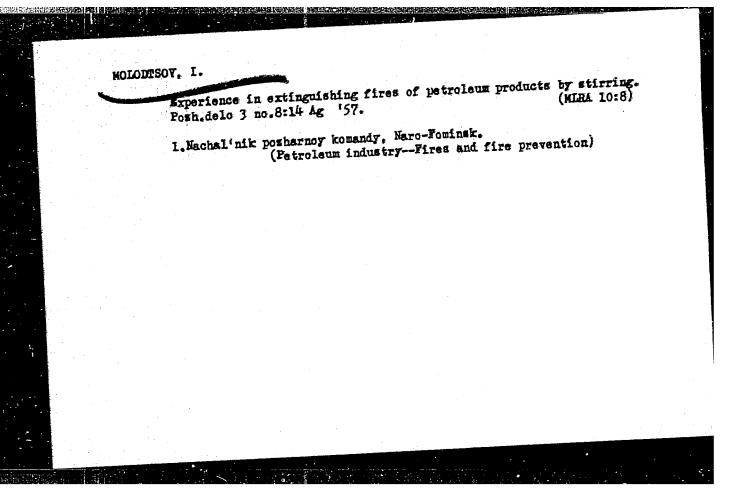
GOFTMAN, M.V.; SEMENENKO, D.P.; IVANOV, Ye.B.; PEYSAKHZON, I.B.;

KULAKOV, M.K.; IZRAELIT, E.M.; KVASHA, A.S.; KAFTAN, S.I.; CHERMNYKH,

M.S.; SHAPIRO, A.I.; KHALABUZAR*, G.S.; SEKT, P.Ye.; GABAY, L.I.;

SMUL*SON, A.S.

Boris Iosifevich Kustov; obituary. Koks i khim. no.2:54 '55.(MLRA 9:3)
(Kustov, Boris Iosifevich, 1910-1955)



MOLOOTSOV, I.G.

AUTHORS: Kozyrev, V.P., Molodtsov, I.G., Peysakhzon, I.B., 68-5-6/14 Podzolkov, W.I., Toryanik, I.Kh., and Florinskiy, N.V.

On the paper by R.Z. Lerner (On changes of the composition of coke oven department in order to increase considerably the number of ovens in a battery". (K stat'e R.Z.Lernera "Ob izmenenii komponovki koksovogo tsekha dlya znachitel" TITLE: nogo uvelicheniya chisla pechey v batareye".)

PERIODICAL: "Koks i Khimiya" (Coke and Chemistry), 1957, No.5, pp.29-31 (U.S.S.R.)

ABSTRACT: In the original paper, L.Z. Lerner proposed some changes in the composition of the coke oven department in order to increase the number of ovens in one battery to 100. Servicing of such a battery would be carried out by one set of coke oven machines. According to Lerner the proposed composition of the coke oven department: 4 batteries of 100 ovens each in comparison with the standard composition (65 ovens per battery) has the following advantages:- the number of personnel required will remain the same as for the standard battery but the labour productivity will increase by 64.2% and the capital expenditure will be 10-12% The present authors consider that the advantages Lerner expects are unfounded. To prove this point the card 1/2

On the paper by R.Z. Lerner "On changes of the composition of coke oven department in order to increase considerably the number of ovens in a battery". (Cont.) 68-5-6/14

authors quote labour requirements for the often practised separation of 2 batteries with 90-110 ovens into an independent unit (Table 1) and compare them with those stated by Lerner (Table 2). A similar comparison for the labour productivity of main coke oven craftsmen for 78-110 oven units and 61-69 units is given in Table 2. Very approximate calculations indicated that the capital expenditure will remain the same. The editorial office communicates that Lerner's paper was discussed during a special session of Glavkoks with the participation of Giprokoks. In view of the division of opinion Giprokoks was requested to design a coke oven department according to Lerner's proposals and to prepare a technical-economical comparison with the usual design. The final decision on the problem will be published in this journal. There are 3 tables.

ASSOCIATION: Giprokoks. (Gos. Inst. po przyektikovaniyu predpriyaty
koksoklimicheskoj promystlennosti

Card 2/2

SOV/68-59-4-15/23

AUTHORS:

Molodtsov, I.G. and Raskin, B.A.

TITIE:

Capital Investments in the Coking Industry of the USSR

(Kapital'nyye vlozheniya v koksokhimicheskuyu

promyshlennost SSSR)

PERIODICAL: Koks i Khimiya, 1959, Nr 4, pp 49-53 (USSR)

ABSTRACT:

Capital investments for the coking industry during the individual periods of the Soviet rule is outlined (data given in table 1). The distribution of capital investments according to the industrial regions is given in table 2, the distribution of the number of coking works according to the size of their output in table 3 (in 1930 and 1955) and dynamics of increase in labour productivity during the period 1940-1955 in table 4. Changes in the value of the total production per ton of coal blend for 1930 and 1955 and changes in the structure of the output for the same period are given in tables 5 and 6 respectively. Changes in the specific capital investments per 1000 roubles of the value of production during 1931-1955 are shown in table 7. It is pointed out that the duration of the construction of coking works increased by about 10 months

Card 1/2

SOV/68-59-4-15/23

Capital Investments the Coking Industry of the USSR

considering that normal duration of the construction of
a 4 battery works should not exceed 43 months. This
results in a consistant lagging behind in constructional
work, an increase in non-operating capital investments
(table 8) and loss of production. There are 8 tables.

ASSOCIATION: Giprokoks

Card 2/2

Molodisor, I.G., Topitaln, L.A.

Mechanization and automation in the by-product coles industry.

Koks i khim. no.3:51-56 [62. (MIRA 15:3)]

1. Gosudarstvennyy vsesoyuznyy institut po proyektirovaniyu predpriyatiy koksokhimicheskoy promyshlennosti.

(Coke industry.—By-products) (Automatic control)

AUTHOR:

Molodtsov, I. V.

sov/30-58-9-48/51

TITLE:

Tasks of Library Cataloguing (Zadachi bibliotechnoy klassifikatsii) Scientific Conference in Leningrad (Nauchnaya

konferentsiya v Leningrade)

PERIODICAL:

Vestnik Akademii nauk SSSR, 1958, Nr 9, pp. 122 - 123 (USSR)

ABSTRACT:

The conference took place from April 24 to April 26 in the Library of the AS USSR. Research work in this field has been and will further be carried out by the Vsesoyuznaya knizhnaya palata (All-Union Library), Gosudarstvennaya biblioteka im. V.I.Lenina (State Library imeni V.I.Lenin), Gosudarstvennaya biblioteka im.M.Ye.Saltykova-Shchedrina (State Library imeni M.Ye.Saltykov-Shchedrin) and many other libraries. Scientific cooperators of the institutes and libraries of the AS USSR participated in the conference as well as cooperators of the Academies of Sciences of the Ukraine, Belorussia, Kazakhstan, Turkmenistan, Latvia, Lithuania, Azerbaydzhan.

The following reports were heard:

I.V. Molodtsov spoke about the fundamentals of classification.

V. N. Voronov on the fundamentals of the methods of classifi-

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cation.

Tasks of Library Cataloguing. Scientific Conference in Leningrad

SOV/30-58-9-48/51.

I.G.Liorentsevich recommended to classify separately the problems of social life.

A.I.Morozova reported on problems concerning the classification of the history of economics.

V.A.Dinaburg spoke about the systematization of chemical publications.

N.I.Kats about the basis of classification of the history of the KPSS.

T.I.Skripkina spoke about the establishment of systematic library catalogues.

V.M.Dukel'skiy about the classification of physical publications.

V.P.Barzakovskiy disapproved of the including of chemistry in physical and mathematical sciences.

A.A. Panov dealt with the prospects of mechanization and automation of the working process in libraries.

B.Yu.Eydel'man approved of the order of classification from inorganic to organic nature.

Ye.I.Shamurin, E.N.Ambartsumyan stated that the interruption of the natural order of sciences from mechanics to biology

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Tasks of Library Cataloguing. Scientific Conference in Leningrad

507/30-56-9-48/51

by technics is unjustified. I.G.Khandzhayan emphasized that at the beginning of classification not only Dialectic Materialism but also Marxism-Leninism as a whole should be placed.

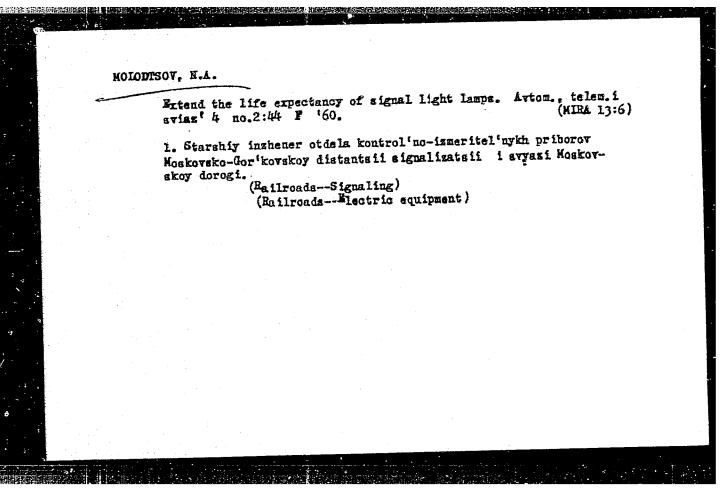
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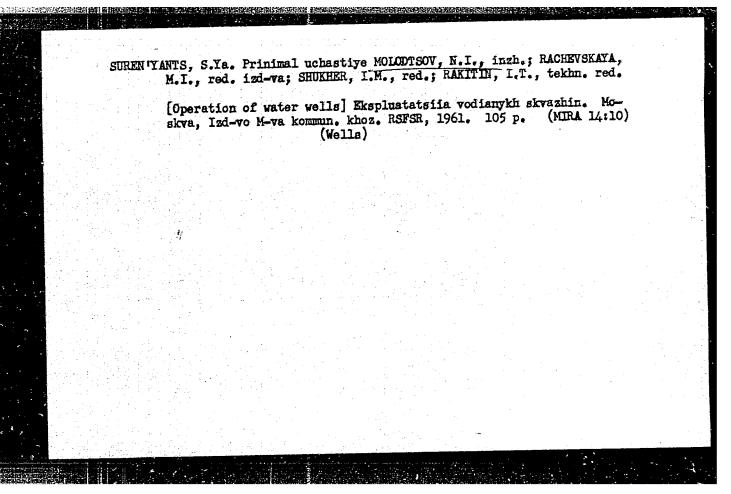
KSANTOPULO, Ya.F.; KOTLYARSKIY, D.I.; IGNATOV, V.A.; AIKINA, E.Kh.; inch.; SMIRNOV, Yu.A.; inzh.; KUNITSINA, T.I., inzh.; IGNATOVA, N.T., inzh; KIRSAHOV, M.I., elektromekhanik; MOIODTSOV, H.A., inzh.; ROD'ED, G.V.

> Discussion of two articles "Stamping apparatus for signaling, central control and bolck systems." and "Periods for testing relays used in signaling, central control and block systems." Avtom., telem. i sviaz: (MIRA 10:12) no.12:35-36 D 157.

> l. Nachal'nik Adzhikabul'skoy distantsii sigualizatsii i svyazi Azerbaydzhanskoy dorogi (for Ksantopule). 2. Starshiy elektromekhanik Moskovskoy distantsii signalizatsii i svyazi Oktyabriskoy dorogi (for Kotlyarskiy). 3.Ayaguzskayadistantsiya signalizatsii i svyazi Turkestano-Sibirskov dorogi (for Alkina, Smirnov, Kunitsyna, Ignatova). 4. Zaveduyushchiy postom dispetcherskoy tsentralizatsii Ayaguzzkoy distantsii signalizatsii i svyazi Turkestano-Sibirskoy dorogi (for Ignatov). 5. Krasnolimanskaya distantsiya signalizatsii i svyazi Donetskoy doregi (for Kirsanov). 6. Moskovskaya distantsiya signalizatsii i svyazi Gor'kovskoy deregi (for Molodtsov). 7.Zamestitel' nachal'nika sluzhby signalizatsii i svyazi Orenburgskoy dorogi (for Rodiko).

(Railroads--Signaling)





EROTOV, V.V.; MOLODISOV, N.K.

Pneumatic equipment designed for loading charcoal into freight cars. Gidroliz. i lesokhim. prom. 8 no.2:20-21 '55.

(NIRA 8:10)

1. Syavskiy lesokhimicheskiy kombinat

(Charcoal--Transportation)

Modernization of rosin and turpentine production. Gidroliz. 1 lesokhim. prom. 14 no.6:19-21 '61. (MIRA 14:9)					
1. Vakhtanskiy kanifol'no-ekstraktsionnyy zavod. (Vakhtan-Cums and resint) (Vakhtan-Turpentine industry-Equipment and supplies)					

sov/79-29-7-49/85 5(3) Kochetkov, R. K., Nifant'yev, E. Ye., Molodtsov, E. T. AUTHORS: Bromination of \(\begin{aligned} \begin{align TITLE: Zhurnal obshchey khimii, 1959, Vol 29, Nr 7, pp 2330-2337 (USSR) PERIODICAL: Hitherto the easily accessible \$ -katoacetals RCOCH_CH(OH'), ABSTRACT: were used either as potential \$-dicarbonyl compounds (Refs 1, 4), seeing they resemble the β -chlorovinylketones in their reactions or as ketones having another reactive substituent. A third possibility, i.e. that of introducing substituents into the central methylene group of the ketoacetal, has so far been disregarded, even though the resulting compounds could be utilized for synthesis in various directions (Ref 8). As first reaction of this kind the hitherto unknown bromination of the ketoacetals was undertaken. Thus, two methods were elaborated, one for the synthesis of α -bromo- β -ketoaldehydes by bromination of \$-ketoaldehydes in aqueous solution in the presence of barium carbonate, and another for the preparation of ethylene acetals of α -brome- β -ketoaldehydes by bromination of the ethylene acetals of & -ketoaldehydes in ether in the presence of barium carbonate. By condensation of ∝-bromo-β-ketoaldehydes

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135020019-9"

Card 1/2

Bromination of β -Ketoacetals

SOV/79-29-7-49/85

with urea, the 2-amino-5-acyloxazoles were obtained; on condensing with thiourea and thioamides of acids 2-substituted 5-acylthiazoles were formed. Thus, it was demonstrated, that the ∞ -bromo- β -ketoaldehydes react similarly to ∞ -bromoaldehydes in the reactions under investigation. On treating ethylene acetals of ∞ -bromo- β -ketoaldehydes with β -naphthol in the presence of iron chloride and hydrochloric acid 2-alkyl-3-bromo-naphtho-(1,2;5',6')-pyryl salts were formed. Table 1 shows the synthesis of the ∞ -bromo- β -ketoaldehydes:

R-CO-CHBr - C and table 2 the synthesis of the ethylene acetals of \(\precede{\prec

There are 2 tables and 15 references, 6 of which are Soviet.

Moskovskiy gosudarstvennyy universitet (Moscow State University)

ASSOCIATION:

SUBMITTED:

Card 2/2

June 5, 1958

CIA-RDP86-00513R001135020019-9 "APPROVED FOR RELEASE: 03/13/2001

6795L 5.3400 SOV/20-130-1-26/69 5(3) Wifant'yev, E. Ye., Molodtsov, N. V., Kudryashov, L. I., AUTHORS: Kochetkov, N. K.

Ethylene Acetals of &-Bromaroylacetaldehydes and Their TITLE: Transformations

Doklady Akademii nauk SSSR, 1960, Vol 130, Nr 1, pp 94-97 (USSR)

The authors wanted to synthesize eta-ketoazetals with functional ABSTRACT: groups in the molecule. For this purpose, they investigated the exchange reaction of the bromine atom in the ∞ -bromo- β -ketoazetals RCO-CHBr-CH(OR1)2 the synthesis method of which they had

worked out recently (Ref 2). < -Bromo-substituted ethylene acetals of the aromatic series ArcochBrcH(OCH2)2 were best

suited. Such compounds were produced by bromination of the ethylene acetals of aroylacetaldehydes (see Scheme). The bromination was achieved either by bromine action in ethereal solution in the presence of barium carbonate (Ref 2) or by bromosuccinimide. The products obtained and mentioned in the title are stable, crystalline substances. Their bromine atom is quite readily exchanged by interaction with salts of some mineral acids. Thus, corresponding ~-substituted ethylene acetals of

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PERIODICAL:

67951

Ethylene Acetals of &-Bromaroylacetaldehydes and Their Transformations

SOY/20-130-1-26/69

aroylacetaldehydes (see Scheme) are formed, namely \(\alpha\)-iodineand C-thiocyanogen-substituted ethylene acetals. A little more difficult is the substitution of bromine by the nitro group while α -nitro- β -ke to ace tall is formed. The above compounds represent a valuable initial material for the synthesis of some hardly accessible substances such as 4-benzoyl-2-oxythiazol. The interaction of brominated ketcacetals with mercaptanes proceeds smoothly. The reaction of the ethylene acetal of x-bromobenzoylacetaldehyde with sodiumbenzylmercaptide in methanol produces the ethylene acetal of a-benzylthiobenzoylacetaldehyde (see Scheme, Fig 1: I - the UV spectrum). The same bromoacetal reacts differently with acdium phenolate. No pure compound could be isolated from the resulting complex mixture by the reaction in acctone. On the other hand, the same reaction in methanol yielded a crystalline substance the analysis of which corresponded to the \(\beta - \text{phenoxy=} \beta = \text{methoxy=} \alpha - \text{oxy-hydrocinnamic} \) aldehyde. Its UV spectrum (Fig 1: II) proves the missing benzoyl group and confirms the structure mentioned. It seems that the reaction with sodium phenolate proceeds via a transient ∝-oxide (similar to reactions described by T. 1. Temnikova, Ref 5, see Scheme)

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Ethylene Acetals of X-Bromaroylacetaldehydes and Their Transformations

67951 SOV/20-130-1-26/69

The interaction of bromoketoacetals with amines is complicated by the fact that - besides the exchange of the bromine atom - the acetal group enters the reaction. Thus, the phenyl- \propto , β -di-N-piperidylvinylketone develops in a high yield from the ethylene acetal of the \propto -bromobenzoylecetaldehyde and piperidine (UV spectrum, Fig 1: IV). Table 1 shows the constants and yields of the substances produced. There are 1 figure, 1 table, and 7 references, 5 of which are Soviet.

ASSOCIATION: Moskovskiy gosudarstvennyy universitet im. M. V. Lomonosova (Moscow State University imeni M. V. Lomonosov)

PRESENTED: June 9, 1959, by A. N. Nesmeyanov, Academician

SUBMITTED: June 6, 1959

Card 3/3

Zhur.VKHO 6 no.5:594-595 61. (MIRA 14:10 1. Institut khimii prirodnykh soyedineniy Akademii nauk SSSR. (Glucosamine)	
l. Institut khimii prirodnykh soyedineniy Akademii nauk SSSR. (Glucosamine)	
(Gincosainte)	
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KOCHETKOV, N.K.; KUDRYASHOV, L.I.; MOLODISOV, N.V.; KHOMUTOVA, Ya.D.

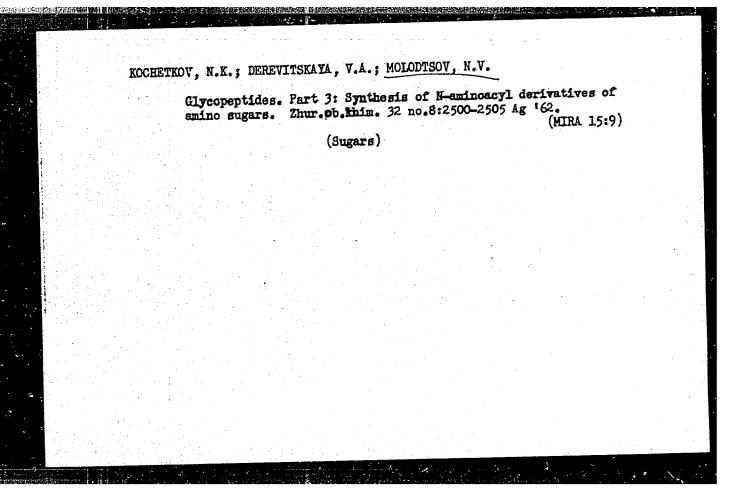
Benzostes of 2,5-dimethoxy-2,5-dehydrofurfuryl alcohols and some of their reactions. Zhur.ob.khim. 31 no.12:3909-3916 D *61.

(MTRA 15:2)

1. Institut khimii prirodnykh soyedineniy AN SSSR.

(Benzoic acid)

(Furfuryl alcohol)



MOLODTSOV, N.V.; KOCHETKOV, N.K.; DEREVITSKAYA, V.A.

Glycopeptides. Fart 6: Further development of the synthesis of N-eminoacyl derivatives of amino sugars. Izv. AN SSSR, Ser. khim. no.12:2165-2172 D '63. (MIRA 17:1)

1. Institut khimii prirodnykh soyedineniy AN SSSR.

DEREVITSKAYA, V. A.; MOLODTSOV, N. V.; KOCHETKOV, N. K.

Glycopeptides. Report No. 8: Synthesis of N-galacturoncylrimine.

Izy AN SSSR Ser Khim no. 4:677-680 Ap '64. (MIRA 17:5)

1. Institut khimii prirodnykh soyedineniy AN SSSR.

MOLOUTSOV, S., starshiy mauchnyy sotrudnik.

Problem of the continental shelf. Mor. flot 18 no.10:28-29 0 588.

(MIRA 11:11)

1. Institut prava AN SSSR.

(Continental shelf) (Maritime law)

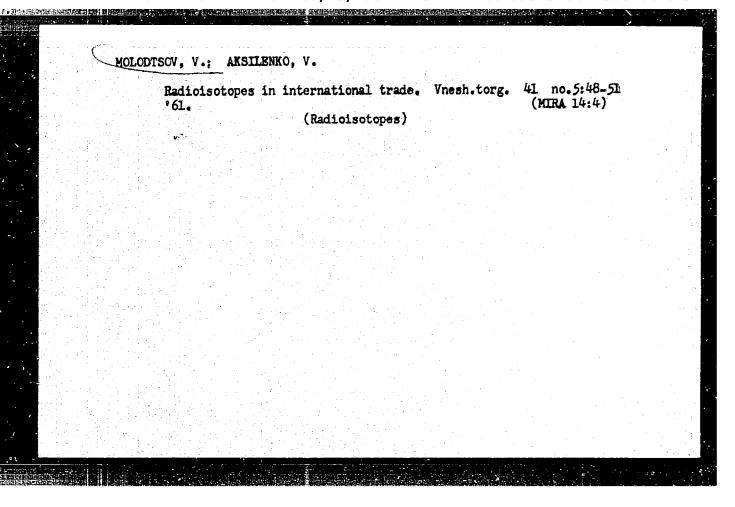
Sovremennoye Mezho (Contemporary Internati Gosyurizdat, 1954.	dunarodno-Pravovoye Polozi ional Law Situation of the	heniye Antarktike e Antaretic) Mosk	va,
h6 p. Map At Head of Title: Akad	demiya Nauk SMSR. Instit	ut Frava.	
So: D/3 102.5 •M7			

MOLODISOV, V.

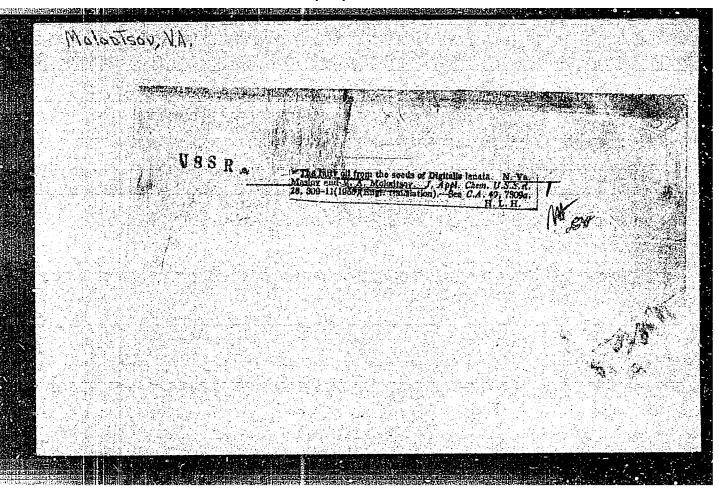
Economics

I. V. Stalin on the objective character of the laws of nature and society, Prof. soluzy 8, No. 2, 1953.

9. Monthly List of Russian Accessions, Library of Congress, May 1953, Unclassified.



We are improving industrial organization and raising economic indexes. Der.prom.4 no.7:26 J1.55. (MIRA 8:10) 1. Manturovskiy fanernyy zavod (Manturovo-Veneers and veneering)



MOLONTSOV, V.A.

Subject : USSR/Chemistry AID P - 2293

Card 1/1 Pub. 152 - 19/21

: Maslov, N. Ya. and V. A. Molodtsov Author

: Fatty oil from seeds of Digitalis lanata Ehrh. Title

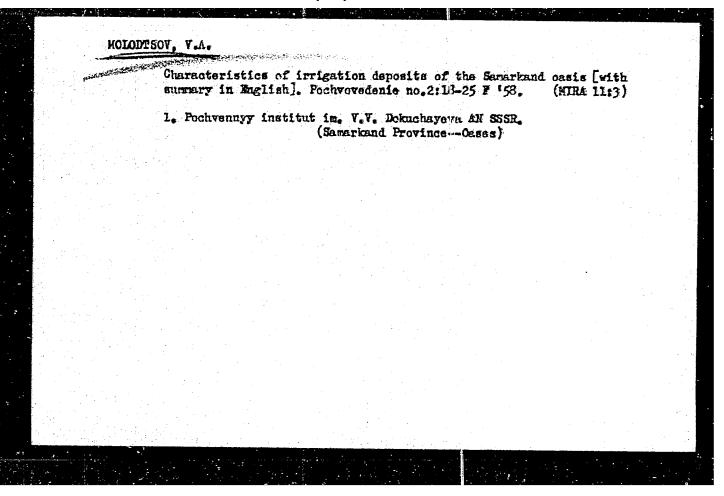
Periodical: Zhur. prikl. khim., 28, no.3, 334-336, 1955

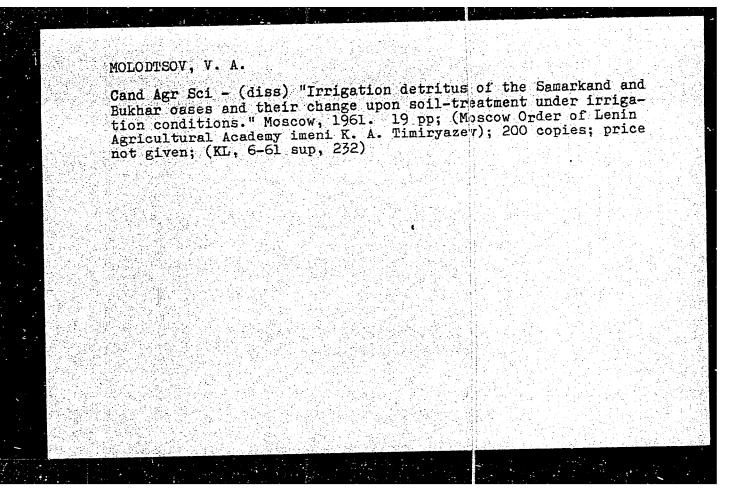
Abstract : The chemical and physical properties of the oil are described. The composition of the oil has not been definitely established. Eleven references (8 Russian:

1885-1952).

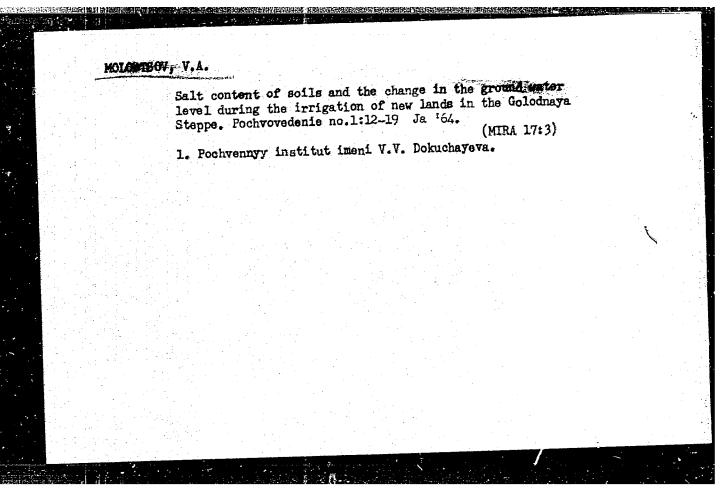
Institution: Chair of Organic Chemistry of the Moscow Agricultural Academy of the Order of Lenin (im. K. A. Timiryazev)

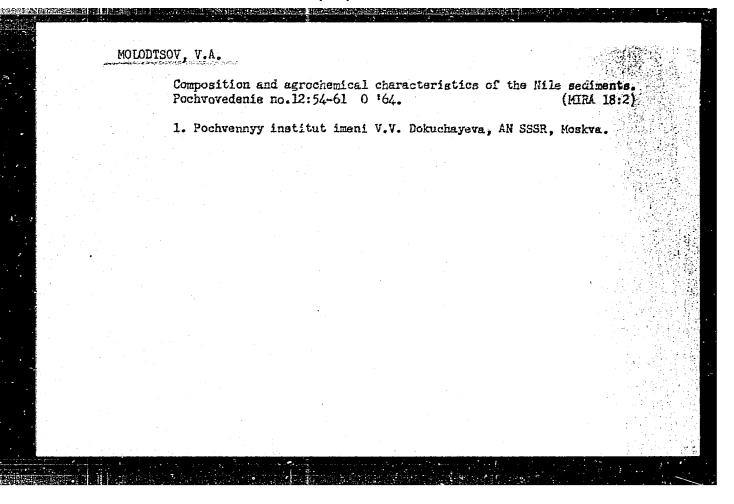
Submitted : Ap 17, 1952





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	1. Pochvennyy institut imeni V.V (Murgab CasisSolonol	.Dokuchayeva AN hak soils)	SSSK.	
경기를 하면 실험 하지요. 수많을 보는 것을 하실하고?				





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S/193/60/000/010/006/015 A004/A001

AUTHOR:

Molodtsov, V. F.

TITLE:

The 1532F and KY-65 (KU-65) Double-Column Vertical Boring and

Turning Lathes,

PERIODICAL: Byulleten' tekhriko-ekonomicheskiy informatsii, 1960, No.10, pp.22-25

TEXT: In 1959 the large model 1532T vertical boring and turning lathe was designed and built at the Kolomenskiy zavod tyazhelogo stankostroyeniya (Kolomna Heavy Machine-Tool Plant). The lathe is designed for the turning and boring of cylindrical and conical surfaces, face machining, grooving and other lathe operations on ferrous and non-ferrous metals. The lathe possesses an increased rigidity of the main units, which makes it possible to machine on it large and heavy workpieces with great precision. The new large special purpose KU-65 double-column vertical boring and turning lathe has been developed and is manufactured by the same Plant. It has been designed for machining cylinders of powerful steam turbines and cylindrical and conical surfaces of other heavy parts. Based on the 1580/ (1580L) vertical boring and turning lathe, the new KU-65 lathe has a larger portal and an additional cross beam to increase the rigidity of the

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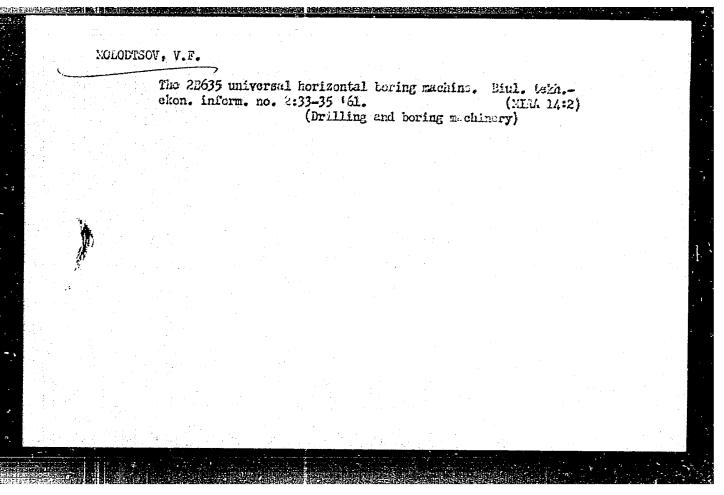
The 1532F and KY-65 (KU-65) Double-Column Vertical Boring and Turning Lathes

portal. Rotation of the table and the setting and operation feeds are effected by a d-c motor, while rapid displacement of slides and cross arms is actuated by an asynchronous electromotor. All controls are fully automated. The tables of both the 1532T and KU-65 lathes have flat guides reinforced with the UAM-10-5 (TsAM-10-5) antifriction alloy and are centered on the stationary base pivot by way of precision bearings. A special copying device with electrocontact pickup, controlled by electromagnetic couplings of the feed box, makes it possible to machine parts with stepped or curved surfaces with high precision and surface finish. The KU-65 machine is equipped with television for observation of the cutting process, tool wear, and surface finish. To extend the technological possibilities, the manufacturing Plant furnishes the lathes also with a milling head, a device for the turning of sloping comes, and a boring bar for deep holes. Besides, the model 1532F can be fitted with a turret head, while the model KU-65 lathe can be equipped with a milling and drilling boring carriage and a device for the recording of the angle of pitch of the table. The following technical data are given (the first figure referring to model 1532", the second figure to model KU-65): Maximum dimensions of the workpiece being machined: diameter - 3,200, 8,000 mm; height -2,000, 5,000 mm; maximum weight of workpiece being machined - 40, 125 tons; Card 2/3

86057 \$/193/60/000/010/006/015

The 1532T and KY-65 (KU-65) Double-Column Vertical Foring and Turning Lathes maximum travel of vertical slides - 1,250, 2,500 mm, of horizontal slides - 1,900, 4,400 mm; range of stepless regulation of the velocity of rotation of the table - 0.66-62.1, 0.23 - 19.3 rpm. range of stepless feed regulation - 0.05-452, 0.03-305 mm/min; travel speed of crossrail - 430, 300 mm/min; power of main electromotor - 63, 100 kw; overall dimensions of machines (length) 5,120, 8,615 x (width) 9,345, 17,600 x(height)7,470, 12,060 mm; weights - 85.5, 281 tons. There are 2 figures.

Card 3/3



ACC NR: AP6022174	SOURCE CODE: UR/0193/66/000	0/002/0003/0004	
WIHOR: Molodtsov, V. F.		G	
RGsKone		20	
MITLE: Special boring mechin	e of KU-180 type	B	
	okonomicheskoy informatsii, no. 2, 1966	. 3–4	
	ring machine, metal boring / KU-180 bor		
	STIP MEDITION MONTH SATTING & MAIN	-6	
			_
ESTRACT: A special KU-180 b	oring machine manufactured by the Kolom	ensiciy Heavy Machi	ine-
fool Plant is described. It notors at 4-1600-3600 rpm. Th	is equipped with a 160-mr spindle, and is machine is shown in a photo and its di	s driven by two dimensions and char	rac-
Tool Plant is described. It notors at 4-1600-3600 rpm. The teristics are tabulated. Its	is equipped with a 160-mm spindle, and is machine is shown in a photo and its discrete is 5200 x 3320 x 5275 mm and its i	is driven by two dimensions and char reight is 32 tons.	i-e rac
Tool Plant is described. It motors at 4-1600-3600 rpm. The teristics are tabulated. Its some of its constituent parts wither of portable type or be	is equipped with a 160-mr spindle, and is machine is shown in a photo and its di	is driven by two dimensions and char reight is 32 tons, he machine can be	i-c rac=
cool Plant is described. It notowat 4-1600-3600 rpm. The teristics are tabulated. Its come of its constituent parts either of portable type or betable.	is equipped with a 160-mm spindle, and is machine is shown in a photo and its discrete is 5200 x 3320 x 5275 mm and its is are mentioned or briefly described. It fixed on a foundation. Orig. art. has:	is driven by two dimensions and char reight is 32 tons, he machine can be	i-c rac=
Tool Plant is described. It notors at 4-1600-3600 rpm. The teristics are tabulated. Its some of its constituent parts wither of portable type or betable.	is equipped with a 160-mm spindle, and is machine is shown in a photo and its discrete is 5200 x 3320 x 5275 mm and its is are mentioned or briefly described. It fixed on a foundation. Orig. art. has:	is driven by two dimensions and char reight is 32 tons, he machine can be	i-c rac=
cool Plant is described. It notowat 4-1600-3600 rpm. The teristics are tabulated. Its come of its constituent parts either of portable type or betable.	is equipped with a 160-mm spindle, and is machine is shown in a photo and its discrete is 5200 x 3320 x 5275 mm and its is are mentioned or briefly described. It fixed on a foundation. Orig. art. has:	is driven by two dimensions and char reight is 32 tons, he machine can be	i-c rac=
Tool Plant is described. It notors at 4-1600-3600 rpm. The teristics are tabulated. Its some of its constituent parts wither of portable type or betable.	is equipped with a 160-mm spindle, and is machine is shown in a photo and its discrete is 5200 x 3320 x 5275 mm and its is are mentioned or briefly described. It fixed on a foundation. Orig. art. has:	is driven by two dimensions and char reight is 32 tons, he machine can be	i-c rac=
Tool Plant is described. It motors at 4-1600-3600 rpm. The teristics are tabulated. Its some of its constituent parts	is equipped with a 160-mm spindle, and is machine is shown in a photo and its discrete is 5200 x 3320 x 5275 mm and its is are mentioned or briefly described. It fixed on a foundation. Orig. art. has:	is driven by two dimensions and char reight is 32 tons, he machine can be	i-c rac=

L 46127-66 EWT(d)/EWP(v)/EWP(k)/EWP(l) ACC NR: AP6024046 SOURCE CODE: UR/0193/66/000/003/0007/0009	
 AUTHOR: Molodtsov, V. F. ORG: None	•
SOURCE: Byulleten' tekhniko-ekonomicheskoy informatsii, no 3, 1966, 7-9 TOPIC TAGS: metal turning, turning machine, lathe, metal machining, feed mechanism, remote control, metal loring / 14591 lathe. ABSTRACT: The author describes a special turret lathe developed by the Kolomna Heavy Machine Tool Building Plant. This lathe can machine parts up to 10,000 mm in diameter and 5,000 mm high. It was designed for turning and boring cylindrical and conical surfaces, facing and slot milling. The lathe can do both rough and finish machining on such materials as cast iron, steel, nonferrous metals and their alloys. The is equipped with an electrocontact copy unit which makes it possible to machine It is equipped with an electrocontact copy unit which makes it possible to machine The motor is controlled by weakening the magnetic field at constant power or from The motor is controlled by weakening the magnetic field at constant moment. The 300 to 75 rpm by varying the armature voltage with respect to permanent moment. The lathe is equipped with a two-stage gear box. An electrohydraulic unit engages one of lathe is equipped with a two-stage gear box. An electrohydraulic unit engages one of the mechanical speed box stages which is controlled from a suspended panel. The face	
Card 1/2 UDC: 621.941.28	_

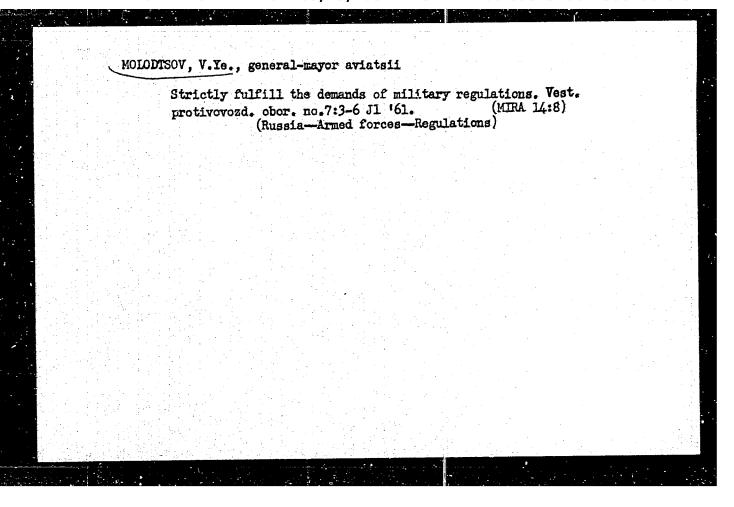
illing-drilling attachmen	dividual base by two rows of precision rot is provided. The spindle of this attactor through a 16-stage speed box. The lathe, continuous rotation control of	high speed and the face plate, a
ower characteristics of t	of working feeds and remote control of abor and 50,000 rubles a year by introdu figure, 1 table.	all the mechanisms
		•

SOURCE CODE: UR/0000/66/000/000/0207/0213 ACC NR. AT6034344 AUTHOR: Holodtsov, V. K. (Hoscow) org: none TITLE: On the calculation of equilibrium gas flows SOURCE: Chislennyye metody resheniya zadach matematicheskoy fiziki (Numerical methods of solving problems in mathematical physics); sbornik statey. Hoscow, Izd-vo Nauka, 1966, 207-213 TOPIC TAGS: supersonic aerodynamics, supersonic flow, equilibrium flow, dissociated gas, shock wave, thermodynamic property, GAS FLOW ABSTRACT: A new technique for computing the thermodynamic properties of gas mixtures is described which is necessary for calculating supersonic equilibrium gas flows over bodies. It is based on differential correlations obtained from the basic equations of gas dynamics and equations of chemical equilibrium. This approach was used for calculating supersonic equilibrium gas flows past blunt bodies by the method of integral relations developed by A. A. Dorodnitsyn and O. H. Belotserkovsky. of the advantages of this technique consists in that the obtained system of differential equations is associated with the initial approximate system of the numerical scheme for solving the gas dynamic problem and UDC: 517.9:53 1.011

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requires of air of p_ = 0.0	s less compute over a sphere Ol atm, T _{es} = 3	ith the latter of time than the were calculated to the contained by the art. has 3	d in the rangustrative exception	ge of K = 4 mple. A com method show	to 30, parison of g satisfac-
		DATE: 21Jun65			
			86、《新春春春》		

MOLODISOV, V.S., red.; IL'IN, A.Ya., red.; MACHUS-SOMINSKIY, V.S., red.

[Methodological problems in contemporary science] Metodologicheskie problemy sovremennoi nauki; sbornik statei. Moskva, Izd-vo Mosk. univ., 1964. 243 p. (MIRA 17:7)



AUTHOR:

Molodtsev, Ye.N., Engineer

SOV-111-58-9-23/30

TITLE:

Improving the Operation of the GRN-4 Generator (Uluchshen-

iye raboty generatora tipa GRN-4)

PERIODICAL:

Vestnik svyazi, 1958, Nr 9, p 28 (USSR)

ABSTRACT:

The dc generator GRN-4, built by the "Elektrosila" Plant, is designed for a current of 1,150 a at 38v. For 24-hour service it can only be run at 900a, 34v; at higher values overloading and burning out of the brushes occurs. Tests have shown that the cause of this defect lies in the brushes working in parallel on the cross-arms. A rise in temperature in a brush leads to a decrease in its resistance, which considerably increases the current flowing through it and further increases the temperature. To equalize the temperature of the brushes on each traverse, special compact brush-holders were prepared from cuprite. By spacing them close together it was possible to fix 9 brushes along the working length of the collector, instead of the 7 previously used. The current density at a rated load of 1,150s now fell from 8.8a/sq cm to 6.88a/sq cm, thus increasing the reliability of the generator's operation in 24-hour service. Special guide plates were also fitted

Card 1/2

Improving the Operation of the GRN-4 Generator

SOV-111-58-9-23/30

to divert the airstream to the collector, brushes, etc. and so improve cooling and the temperature regime. With these improvements, the generator now works steadily under full load, there is no sparking and the brushes do not wear out before their time. There are 4 diagrams.

1. Generators (DC) -- Performance 2. Generators -- Equipment

3. Generators--Design

Card 2/2

AUTHOR:

Molodtsov, Ye.N. Engineer

SOV/111-59-1-24/35

TITLE:

The Conversion of the Submodulator of the Transmitter of Type KVM-120 to a Cathode Load Circuit (Perevod podmodulyatora peredatchika tipa KVM-120 na skhemu s katodnoy nagruz-

koy)

PERIODICAL:

Vestnik svyazi, 1959, Nr 1, pp 24 - 26 (USSR)

ABSTRACT:

Ye.N. Molodtsov, V.V. Frolov and G.M. Ryabov, of one of the radio centers of MDRSV, suggest a method of conversion of the submodulator of the KVM-120 transmitter to a cathode load circuit. The output stage of the modulation part of the KVM-120 transmitter has right-hand G-433 generator tubes. The submodulator is based on a transformer circuit (Figure 1). In order to reduce the non-linear distortions in the submodulator, left-hand GM-51 A tubes are used. A cathode load circuit with direct connections with the terminal stage is demonstrated in Figure 2. Further circuit arrangements are presented in figures 3 and 4, while the final circuit of

Card 1/2

SOV/111-59-1-24/35 The Conversion of the Submodulator of the Transmitter of Type KVK-120 to a Cathode Load Circuit

the conversion is shown in figure 7. Operation of the converted submodulator of the KVM-120 transmitter over an extended period of time indicated that the efficiency coefficient and operation reliability and stability had been increased by the conversion of the submodulator to a cathode load circuit. There are 4 circuits, 2 graphs and 1 table.

Card 2/2

KAZAKOV, V.I., dots.; MOLODTSOVA, A.A., ordinator; SKRIZHEVSKIY, V.K., ordinator; CHERNOVA, S.V., ordinator

Material on a study of photoprotective and photosensitizing properties ov various drugs for external application. Vest.derw. i ven. 31 no.2: 47 Mr-Ap 157. (MIRA 12:12)

1. Iz kafedry kozhnykh i venericheskikh bolezney Stavropoliskogo meditsinskogo instituta.
(DRUGS) (LIGHT--PHYSIOLOGICAL EFFECT)

WARTAPHTOV, B.A.; MOLODISOVA, A.I.

New method of investigating motor function of the intestines.

Vop. fisiol. no.6:143-147 '53. (MLHA 8:1)

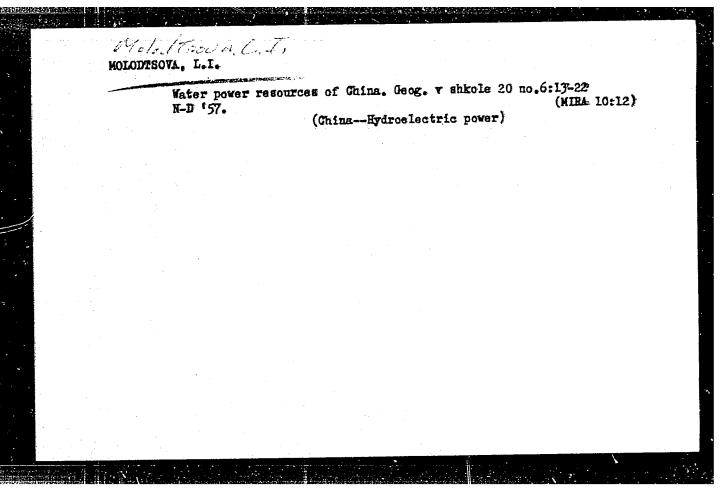
1. Fisiologicheskiy otdel Ukrainskogo instituta eksperimental ony endokrinologii

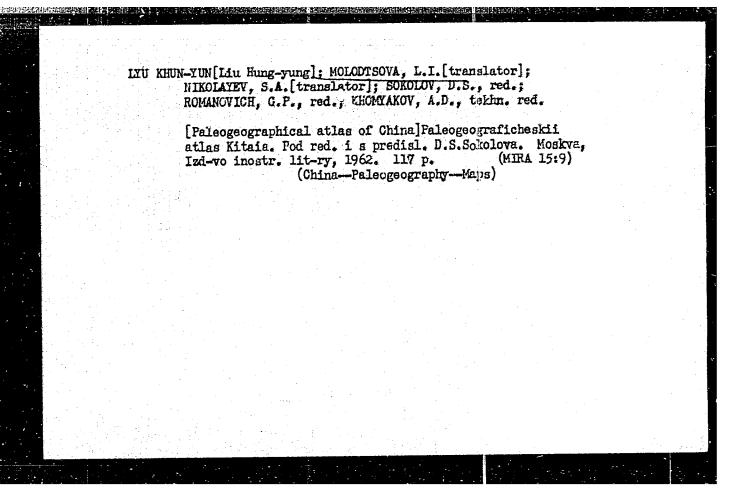
(INTESTINES, physiology,
motor funct., technic of exposure of intestine for graphic study)

KOROVINA, N.N.; MOLODISOVA, A.N.; CHIKHACHEV, M.S.; MAKAHOV, M.S., ted.; SAZONOV, N.M., red.

[Multiple-counter Askot-class 170 adding machine] Mnogo-schetchikovaia summiruiushchaia mashina-avtomat Askota klassa 170. Moskva, Statistika, 1964. 135 p.

(MIRA 18:1)





S/138/60/000/003/006/007 A051/A029

AUTHORS: Lavrent'yeva, T.L.; Molodtsova, L.S.; Kirshentshteyn, N.I.; Trum-

bachev, V.F.

TITLE: The Polarization-Optical Method for Investigating Tensions in Seal-

ing Parts

PERIODICAL: Kauchuk i Rezina, 1960, No. 3, pp. 37 - 40

The distribution of stress in rubber sealing parts was studied by experiment. If the magnitude and distribution of the stress is known, new parts can be designed on a scientific basis and the existing models can be investigated. The applied polarization-optical method helps to investigate the stress distribution and magnitude depending on the size and shape of the part. References tribution and magnitude of this method. It is based on the fact that most transparent isotropic materials acquire under stress the property of double refraction, the magnitude of which is connected with the magnitude of the tension and tion, the magnitude of which is connected with the magnitude of the tension and can be measured with an optical apparatus. It is established that the difference of the velocities, and, therefore, the optical difference of the beam's path G, is proportional to the difference of the main normal tensions (61 - 62). The

Card 1/2

\$/138/60/000/003/006/007 A05:1/A029

The Polarization-Optical Method for Investigating Tensions in Sealing Parts

following formula was derived: $G = cd (\sigma_1 - \sigma_2)$, where c is the optical constant of the material, determined experimentally, d is the thickness of the model. The authors made a study of the state of stress under different pressures of the medium depending on the design of the sealing and landing space and on the size and strength of the bracelet springs. Models made of optically active material, 1. e., igdantine prepared on a gelatin and glycerol base, were studied. The procedure is explained in detail and diagrammatic sketches of the parts studied are submitted. Figure 4 represents a diagram of the distribution of tangent tensins in the stuffing box at a pressure of 0.5 atm of the medium. Figure 5 shows the tangent tensions distributed in the stuffing box at a medium pressure of 1.5 am. The experimental results are only preliminary, since it was impossible to produce a force in the models, which would simulate the tension at a significant pressure of the medium (1 atm or more). However, the results show the effectiveness of using the discussed method in designing sealing units. There are 5 diagrams, 1 table and 7 references: 6 Soviet and 1 English. ASSOCIATION: Nauchno-issledovatel skiy institut rezinovoy promyshiennosti (Sci-

entific Research Institute of the Rubber Industry)

Card 2/2

TRUMBACHEV, V.F.; MOLODISOVA, L.S.

Studying the stressed state of rocks around nine workings with the help of the optical method. Vop. gor. dayl. no.17:55-85 '63. (MIRA 18:9)

1. Institut gornogo dela imeni Skochinskogo.

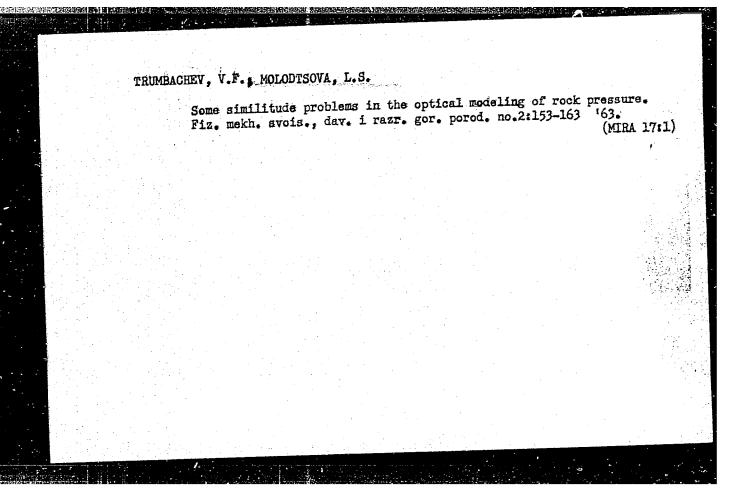
TRUMBACHEV, V.F.; MOLODISOVA, L.S.; KATKOV, G.A.

Procedure and results of using the method of photoelastic coatings in investigating the stressed state of rocks and various structures. Vop. gor. davl. no.18:70-86 '63. (MIRA 18:7)

TRUMBACHEV, Vladimir Fedorovich; MOLODYSOVA, Lyudmila Semenovna;
LIEERMAN, Yu.M., kand. tekhn. nauk, otv. red.; KOSTAN'YAN,
A.Ya., red.; RYLINA, Yu.V., tekhn. red.

[Using the optical method to study the stress state of rocks
around mine workings] Primenenie opticheskogo metoda dlia issledovaniia napriazhennogo sostoieniia porod vokrug gornykh
vyrabotok. Moskva, Izd-vo Akad.nauk SSSR, 1963, 93 p.
(MIRA 16:5)

(Rock pressure--Models) (Photoelasticity)



ACC NR. AT7002110

(A)

SOURCE CODE: UR/0000/66/000/000/0254/0260

AUTHOR: Katkov, G. A.; Molodtsova, L. S.; Trumbachev, V. F.

ORG: none

TITLE: Determination of stresses and external loads on supports of underground equipment

SOURCE: Vsesoyuznaya konferentsiya po polyarizatsionno-opticheskomu metodu issledo-vaniya napryazheniy. 5th, Leningrad, 1964. Polyarizatsionno-opticheskiy metod issledo-vaniya napryazheniy (Polarizing-optical method of investigating stresses); trudy konferentsii. Leningrad, Izd-vo Leningr. univ., 1966, 254-260

TOPIC TAGS: photoelasticity, stress analysis, pressure transducer, structural engineering, epoxy plastic, underground facility-

ABSTRACT: Photoelastic strips (transducers) made of ED6-M epoxy were used to study the stress conditions on underground equipment supports during operations. Rectangular transducers $50 \times 25 \times 2$ mm, $40 \times 20 \times 2$ mm, and discs of 30 mm diameter were glued at different locations. The best glue compositions were given along with the optimum curing conditions. The ED6-M epoxy had an elastic modulus of $30,000 \text{ kg/cm}^2$, a Poisson ratio of 0.37, and a sensitivity which allowed deformations as $102 \text{ as } 2 \cdot 10^{-5}$ to be measured. Stresses were measured from the values of birefraction. An equation

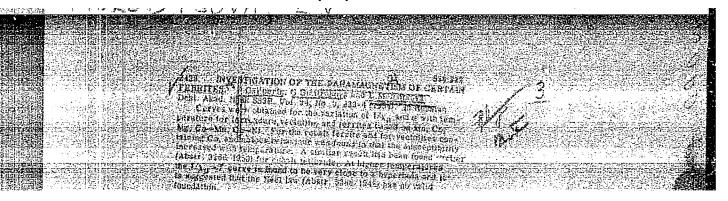
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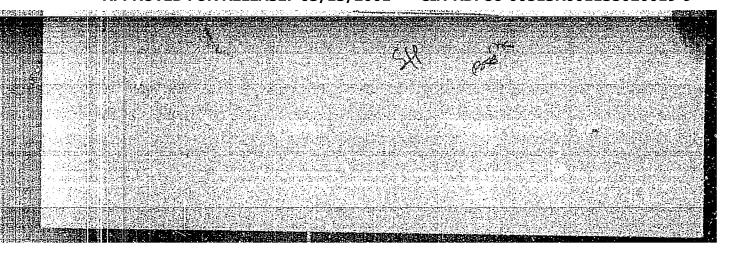
ACC NR: AT7002110

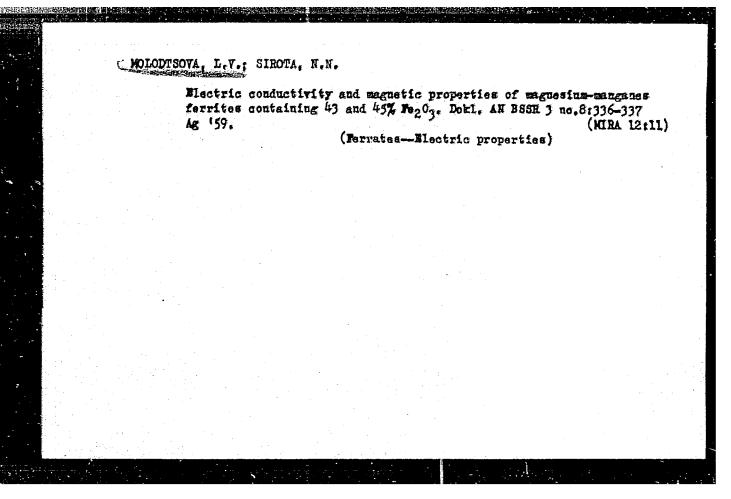
was given for the difference in principle stresses $\sigma_1-\sigma_2$ as a function of the relative change in the light path, thickness of the transducer, optical stress coefficient of the transducer material, and the elastic constants of the structure. A portable polariscope which was used in measuring the changes in light path was shown. A photograph was given showing the locations of the transducers on different supports of underground digging equipment of the M-81 and MKP type. Axial loads and bending moments were determined at these locations. The analysis showed that the load in the lower elements of the supports varied between 3.5 and 5.5 tons. The load on the arms was 8.7 tons corresponding to a stress of 2.9 tons/m². The stress along the frame of the support varied widely, reaching as high as 16 kg/cm² near arm junctions. A schematic drawing was shown of the locations of photoelastic transducers along the mechanized supports of the MKP. The stress profile along the roof of the MKP showed that the stress exceeded 15 tons/m² at one location. This technique could be used to measure absolute or relative stresses in supports or surrounding mountain rock. Orig. art. has: 4 figures, 2 formulas.

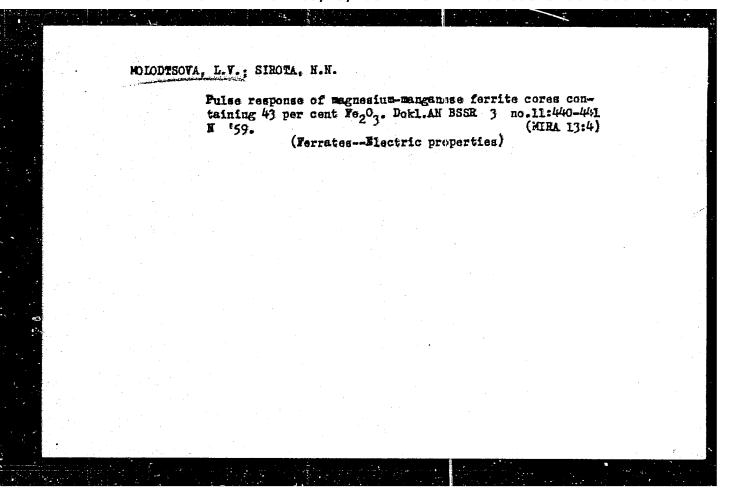
SUB CODE: 13,11/ SUBM DATE: 14Jum66/ ORIG REF: 003

Card 2/2









24(3, 6)

SOV/170-59-6-19/20

AUTHORS:

Sirota, N.N., Molodtsova, L.V.

TITLE:

Investigation of Magnesium-Manganese Ferrites Containing 40% Fe 203

PERIODICAL:

Inzhenerno-fizicheskiy zhurnal, 1959, Nr 6, pp 116-120 (USSR)

ABSTRACT:

In view of considerable technical importance of magnesium-manganese ferrites and insufficient studies of their properties, the authors undertook this attempt to investigate the changes in their magnetic characteristics due to changes in the MgO/MnO ratio under constant. Fe2O; content. Magnesium oxide, commercial iron oxide and manganese carbonate were used as initial materials whose relative concentration in various ferrites investigated is given in Table 1. Changes in specific electric resistance, coercive force, maximum and residual induction in dependence on the composition of the specimens are though in Figure 1; changes in the values of Curie point, coefficient of the square shape of hysteresis loops, initial permeability and the area of hysteresis loops in dependence on composition are shown in Figure 2, and changes of induction in dependence on temperature in a field of 8 cersted are shown in Figure 3. Of considerable

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SOV/170-59-6-19/20

Investigation of Magnesium-Manganese Ferrites Containing 40% Fe₂0₃

interest is a peak in the curve of hysteresis loop areas at 20% concentration of MnO in Figure 2. Various shapes of hysteresis loops are shown in Figure 4. The authors thank A.I. Gur'yanova for assistance in preparing the specimens. There are 4 graphs, 2 tables and 8 American references.

ASSOCIATION: Institut tsvetnykh metallov i zolota im. M.I. Kalinina (Institute of Non-Ferrous Metals and Gold imeni M.I. Kalinin), Moscow; Otdel fiziki tverdogo tela i poluprovodnikov AN BSSR (Department of Physics of Solids and Semiconductors of the AS Belorussian SSR), Minsk.

Card 2/2

S/031/61/000/019/004/085 B101/B110

247000

AUTHORS:

Molodtsova, L. V., Sirota, N. N.

TITLE:

Study of the effect of the composition of magnesiummanganese ferrites on their properties

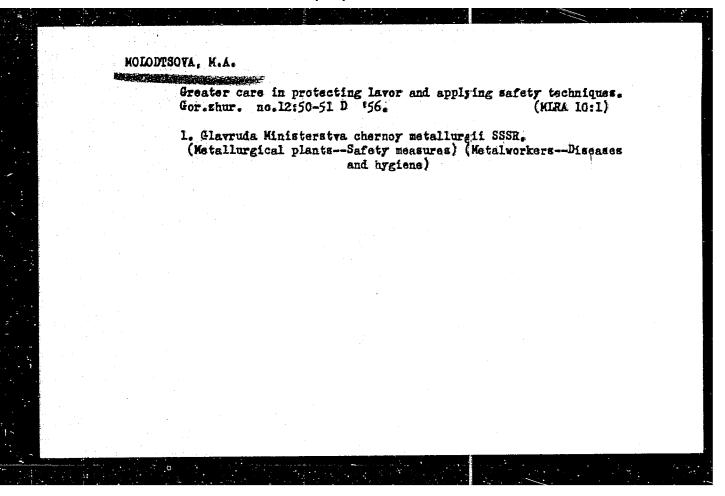
PERIODICAL:

Referativnyy zhurnal. Khimiya, no. 19, 1961, 31, abstract 19B228 (Sb. "Ferrity. Fiz. i fiz.-khim. svoystva", Minsk, AN ESSR, 1960, 164 - 169)

TEXT: The authors determined the Curie points and studied the magnetic properties, the hysteresis, and the resistivity of mutual solid solutions of Mg and Mn ferrites with stoichiometric composition as well as of ferrites with an insufficient content of iron oxide regarding the stoichiometric composition. [Abstracter's note: Complete translation.]

B

Card 1/1



Report of some facts of spontaneous transition of B. pestis into B. pseudo-tuberculosis rodentium. Vest. Microbiol., Epidemiol. & Parasitol. 15, No 2, 136.

RESHETIN, N.I., prof.: MOLODISOVA, S.V., insh.: MORILOV, A.A., insh.

Investigation of a circulation system with U-shaped pipes. Izv.vys.ucheb.sav.; energ. 2 no.6:88-92 Je *59. (MIRA 13:2)

I. Ural'skiy politekhnicheskiy institut imeni S.M.Kirova. Predstavlena kafedroy prouteploenergetiki. (Boilers)

S/073/60/026/004/017/018/XX B023/B064

AUTHORS:

Muzyka, I. D. and Molodtsova, V. A.

TITLE:

Partition of Elements by the Method of the Complex Forming

Chromatography

PERIODICAL:

Ukrainskiy khimicheskiy zhurnal, 1960, Vol. 26, No. 4,

pp. 535-539

TEXT: With reference to the published data (Refs. 1-6), the authors study the problem of the removal of iron-, nickel-, and cobalt microimpurities from the solutions of the sulfuric acid zinc- and cadmium salts in media into which no acetate buffers had been introduced. Two types of columns into which no acetate buffers had been introduced. Two types of columns in were used: a coal-dimethyl glyoxime column and a column consisting of coal, zinc oxide (cadmium-) and dimethyl glyoxime. The investigations were coal, zinc oxide (cadmium-) and dimethyl glyoxime. The investigations were coal, zinc oxide (cadmium-) and dimethyl glyoxime. The investigations were coal, zinc oxide (cadmium-) and dimethyl glyoxime. The investigations were coal, zinc oxide (cadmium-) and dimethyl glyoxime. The investigations were coal, zinc oxide (cadmium-) and dimethyl glyoxime. The investigations were coal, zinc oxide (cadmium-) and dimethyl glyoxime. The investigations were coal, zinc oxide (cadmium-) and dimethyl glyoxime. The investigations were coal, zinc oxide (cadmium-) and dimethyl glyoxime. The investigations were coal, zinc oxide (cadmium-) and dimethyl glyoxime. The investigations were coal, zinc oxide (cadmium-) and dimethyl glyoxime. The investigations were coal, zinc oxide (cadmium-) and dimethyl glyoxime. The investigations were coal, zinc oxide (cadmium-) and dimethyl glyoxime. The investigations were coal, zinc oxide (cadmium-) and dimethyl glyoxime. The investigations were coal, zinc oxide (cadmium-) and dimethyl glyoxime. The investigations were coal, zinc oxide (cadmium-) and dimethyl glyoxime. The investigations were coal, zinc oxide (cadmium-) and dimethyl glyoxime. The investigation were coal, zinc oxide (cadmium-) and dimethyl glyoxime. The investigation were coal, zinc oxide (cadmium-) and dimethyl glyoxime. The investigation were coal, zinc oxide (cadmium-) and dimethyl glyoxime. The investigation were coal, zinc oxide (cadmium-) and zinc oxide (cadmium-) and zinc oxide (cadmium-) and zinc oxide (cadmium-) and zin

Partition of Elements by the Method of the S/073/60/026/004/017/018/XX Complex Forming Chromatography B023/B064

coal, in the presence of Fe, Cu, Ni, or Co in zinc sulfate solutions (20 g/l Zn). As compared to Cu, the coal shows a maximum sorption capacity, iron ranks second; nickel and cobalt are less sorbed. Fig. 1 shows the copper adsorption from the ZnSO, solution in dependence on the composition

of the column: on pure coal, on a coal-dimethyl glyoxime column (C-H₂Dm) (Dm = dimethyl glyoxime), on a coal and zinc (C - ZnO) column, and on a column consisting of coal, dimethyl glyoxime, and zinc oxide (C - H₂Dm - ZnQ). Thus, it becomes evident that the sorption of copper is characterized by a linear dependence. Fig. 2 shows the adsorption of trivalent iron under similar conditions. Fig. 3 shows the experimental results after separating the system Zn²⁺ - Ni²⁺ in the columns under conditions similar to those for copper and iron. The removal of nickel from the ZnSO₄ solu-

tions in the coal-dimethyl glyoxime column is characterized by a non-linear function. The nickel adsorption in the C-ZnO column is approximately as great as on pure coal. An addition of ZnO to the coal-dimethyl glyoxime mixture somewhat increases the capacity of the column with respect to nickel, however, only at small amounts of zinc oxide. A further increase of the ZnO content exerts no effect upon the capacity of the column with Card 2/3

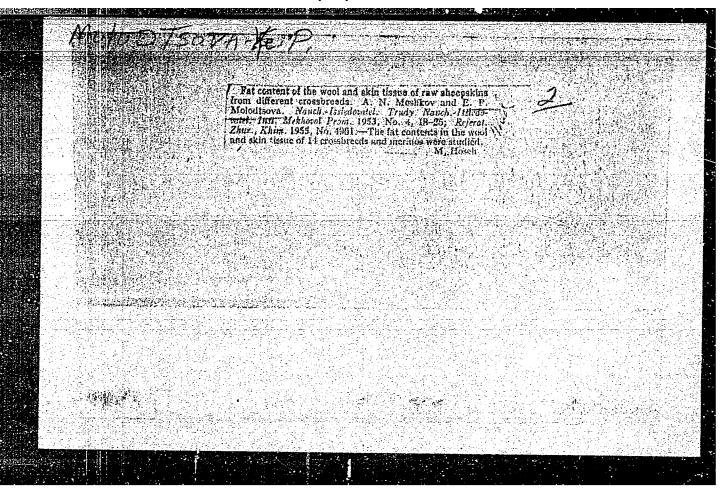
Partition of Elements by the Method of the Complex Forming Chromatography S/073/60/026/004/017/018/XX B023/B064

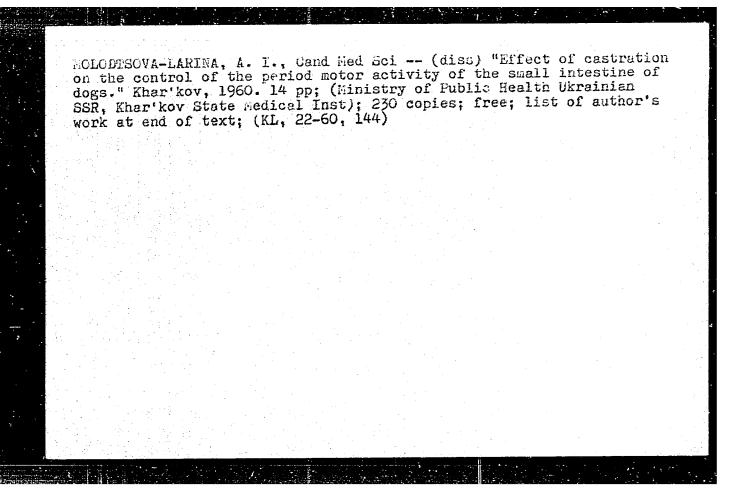
respect to nickel (Fig. 3, Curve 2). Fig. 4 shows the sorption of cobalt on the coal-dimethyl glyoxime column. The capacity of the column with respect to cobalt is insufficient. The increase of the H2Dm content in the sorbent hardly changes the capacity of the column. An introduction of ZnO into the C-H2Dm column increases its capacity only slightly with respect to cobalt. Further experiments were conducted on the basis of the experimental results to separate impurities of Ni, Cu, Fe(III), and Co in the columns of C-H2Dm-ZnO type in the presence of metal impurities in the solution. In conclusion, the authors find that for a simultaneous removal of Fe3+, $\rm Cu^{2+}$, and $\rm Ni^{2+}$ impurities from the $\rm ZnSO_4$ and $\rm CdSO_4$ solutions in the presence of acetate buffers, it is more convenient to apply an adsorbent which apart from coal and glyoxime also contains a metal oxide. There are 4 figures, 1 table, and 6 Soviet references.

ASSOCIATION: Institut obshchey i neorganicheskoy khimii AN USSR (Institute of General and Inorganic Chemistry AS UkrSSR)

SUBMITTED: January 27, 1959

Card 3/3





MOLODVAI, R.

Role of lithium in silicate chemistry. p. 345. Vol. 7, no. 9, Sept. 1955. Epitoanyag.

SOURCE: East European Accessions List (EEAL), LC, Vol. 5, No. 2, Feb. 1956

SERGEYEV, V.; SMIRNOVA, K.; MOLODYAKOVA, A.

Fluorescence method for determining meat freshness. Obshchestv.
pit. no.6:24-25.Je. '63. (MIRA 16:12)

1. Se itral'naya sanitarno-pishchevaya laboratoriya Lenannarpita,
Leningrad.

81805

S/137/60/000/04/08/015

Translation from: Referativnyy zhurnal, Metallurgiya, 1960, No. 4, p. 236,

8381

AUTHORS:

Kot, M.V., Molodyan, I.P.

TITLE:

Electric Conductivity of Thin Layers of the Antimony-Selenium

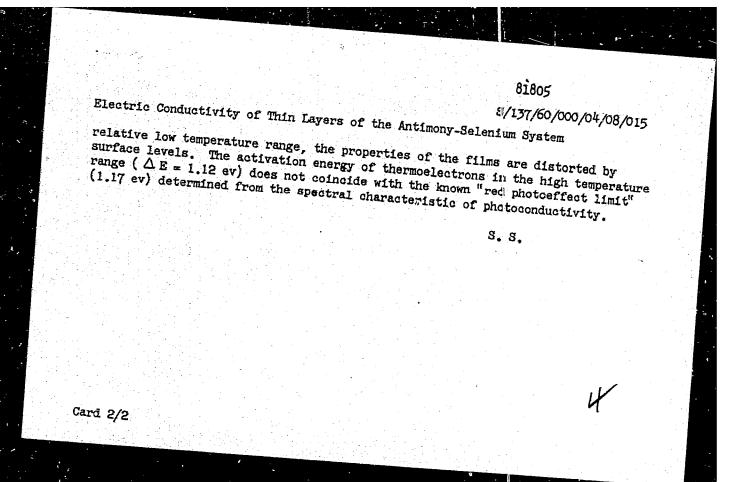
System

PERIODICAL:

Uch. zap. Kishinevsk. un-t, 1959, Vol. 39, pp. 49 - 53

The authors studied the electric resistance R of thin layers of the Sb-Se system, obtained in the form of wedges by the Wekshinskiy evaporation method on a glass backing at a pressure of 10-5 mm Hg. The evaporation conditions of the components were selected in such a manner that the concentration of atoms in the center of the backing (thickness of wedges $> 0.2 \,\mu$) corresponded to the Sb2Se3 compound. The electric resistance was measured in the dark by the voltmeter-ampèremeter method using an M-21 galvanometer with a sensitivity of 2 · 10-10 amp/mm. It was established that in a vacuum the films had the properties of massive polycrystalline layers. In an air atmosphere and within a

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32614 S/137/61/000/011/070/123 A060/A101

187520

Radautsan, S.I., Molodyan, I.P. AUTHORS:

TITLE:

Homogenization of alloys from the section InSb-In2Te, of the indium-

antimony-tellurium ternary system

PERIODICAL:

Referativnyy zhurnal. Metallurgiya, no. 11, 1961, 24, abstract 11Zh144 ("Izv. Mold. fil. AN SSSR", 1960, no. 3(69), 37-47, Molda-

vian summary)

TEXT: The InSb-In2Te, section of the In-Sb-Te system was investigated. The alloys were prepared from In, Sb, and Te of high purity by smelting in evacuated quartz ampoules in a crucible furnace with heating at a rate of 150-200°C per hour up to 600°C and soaking for one hour, 100°C per hour up to 750°C and soaking 1-2 hours, cooling down to 500°C at a rate of 50°C per hour, and there-upon cooling down to room temperature at a rate of 150°C per hour. The alloys were subjected to homogenization: a long annealing, annealing under pressure, and zone normalization. The investigation was carried out by the methods of microscopic, thermal and X-ray structure analyses, and by measuring the microhardness. It was established that in the section InSb-In2Te-, no solid substitu-

Card 1/2

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Homogenization of alloys ...

tion solutions are formed. The use of long annealing and annealing under pressure did not lead to change in the structure of the alloys. Under zone normalization of the alloy 3InSb.In₂Te₃ a chemical compound with the nominal formula tion of the alloy 3InSb.In₂Te₃ a chemical compound with the nominal formula In₄SbTe₃ was discovered, having NaCl structure and showing semiconductor characteristics. There are 25 references.

Z. Rogachevskaya

[Abstracter's note: Complete translation]

Card 2/2

32613 \$/137/61/000/011/069/123 A060/A101

18.7520

AUTHORS: Radautsan. S.I., Madan, I.A., Molodyan, I.P., Ivanova, R.A.

TITLE:

Formation of solid solutions in the InP-In2Se3 system

PERIODICAL:

Referativnyy zhurnal, Metallurgiya, no. 11, 1961, 24, abstract 11Zh143. ("Izv. Mold. fil. AN SSSR", 1960, No 3(69), 107 - 109)

TEXT: The section InP-In₂Se₃ of the In-P-Se system was investigated. The alloys were prepared from P, In, and Se of 99.98% purity, by the use of vibration stirring according to the method similar with the production of InP, and were studied by the X-ray structure and microscopic analyses and hardness measurement methods. It was established that the alloys with compositions close to that of InP (including InP·In₂Se₃) have a crystal lattice of the 2nS type. The alloy 9InP·In₂Se₃ has one phase, alloys from 4InP·In₂Se₃ to InP·In₂Se₃ are two-phase, but both phases have the ZnS structure. The observed decrease of the lattice parameter as the In₂Se₃ content increases testifies to the formation of solid solutions in these alloys. The alloy with composition InP·3In₂Se₃ crystallizes into a low-symmetry structure. There are 6 references.

Z. Rogachevskaya

Card 1/1

8/137/62/000/011/021/07 A052/A101

Molodyan, I. P., Radautsan, S. I., Madan, I. A. AUTHORS:

Some structural and thermal investigations of In, SbTe, compound TITLE:

Referativnyy zhurnal, Metallurgiya, no. 11, 1962, 18 - 19, abstract 111140 ("Izv. AN MoldSSR", no. 10 (88), 1961, 91 - 94) PERIODICAL:

In, SbTe3 compound and some alloys of the InSb Te1-x were investigated by means of high-temperature X-ray and thermal analyses. The alloys were prepared from >99.99% pure In, Sb and Te, each in evacuated quartz ampoules, with the application of vibrational stirring in the process of 7 - 10-hour holding at 800°C. After that the alloys were cooled to 400°C at a rate of 15 - 20 deg./hour. X-ray analysis was made at 20, 100, 200, 250, 300, 400, 500, 550, 575 and 585°C. It is established that In SbTe compound dissociates in the process of heating and the degree of dissociation increases with temperature

and holding time. The In, SbTe 3 compound melts incongruently at 5% ± 5°C. There Z. Rogachevskaya

are 7 references. [Abstracter's note: Complete translation]

Card 1/1

Concerning solid solutions based on indium antimonide in the system indium-antimony-tellurium. I. P. Holodyan, S. I. Radautsan (10 minutes).

Report presented at the 3rd National Conference on Semiconductor Compounds, Kishinev, 16-21 Sept 1963

ACCESSION NR: AF4041368 8/0048/64/028/006/1017/1022

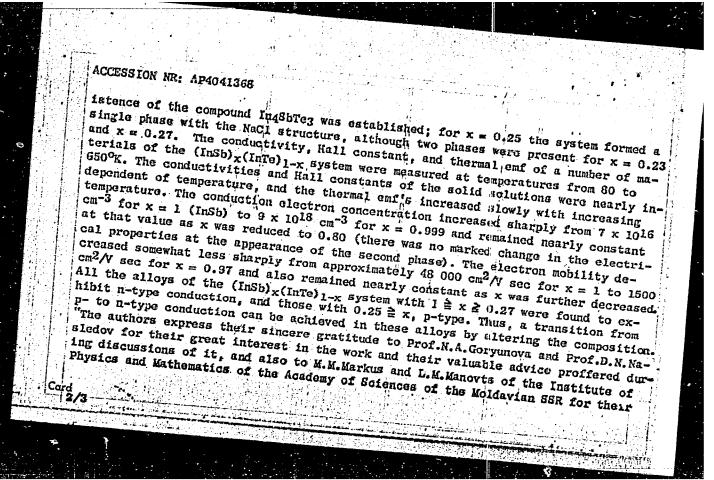
AUTHOR: Molodyan, I.P.; Radautsan, S.I.

TITIE: Some homogeneous phases of indium antimonide-telluride Report, Third Conference on Semiconductor Compounds held in Kishinev 16 to 21 Sep 19637

SOURCE: AN SSSR. Izvestiya. Seriya fizicheskaya, v.28, no.6, 1964, 1017-1022

TOPIC TAGS: solid solution, semiconductor, indium satimonide, indium compound

ABSTRACT: The following systems were investigated: $(InSb)_{2\kappa}(In_2Te)_{1-\kappa}$, $(InSb)_{\kappa}$ $(InTe)_{1-\kappa}$, $(InSb)_{3\kappa}(In_2Te_3)_{1-\kappa}$, $(InSb)_{7\kappa}(In_4Te_7)_{1-\kappa}$, and $(InSb)_{5\kappa}(In_2Te_5)_{1-\kappa}$. The materials were produced by fusing the elements in a manner described elsewhere (S.I. Radautsan and I.P. Molodyan, Izv. Mold. filiala AN SSSR No. 3 (69) 37,1960). All these systems formed solid solutions for $1 \ge \kappa \ge 0.85$ and none formed solid solutions for systems formed solid solutions for $1 \ge \kappa \ge 0.85$ and none formed solid solutions for $0.80 \ge \kappa$. The solutions all had the ZnS structure with a lattice constant somewhat less than that of InSb. The nature of these solutions is discussed, and it is suggested that similar large regions of solubility may occur in other AIII_BV_CVI systems. The $(InSb)_{\kappa}(InTe)_{1-\kappa}$ system was investigated in more detail than the others, and the limit of solubility was found to occur for κ between 0.85 and 0.83. The example of the solubility was found to occur for κ between 0.85 and 0.83.



ACCESSION NR: AP4041368 participation in the experimental work." Originations: 4 figures and 2 tables. ASSOCIATION: none: SUBMITTED: OO	
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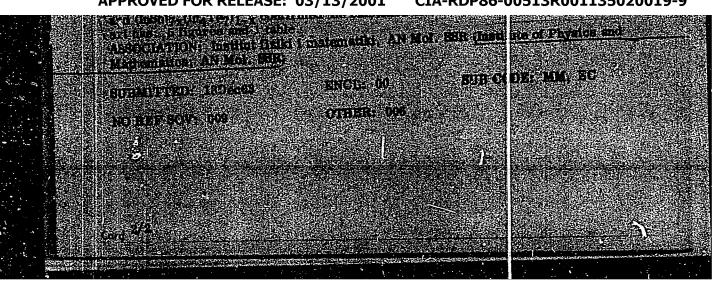
TITLE: Solid solutions based on fabr in the system La-Si-Ta (1)

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SOURCE: Ref. zn. Khimiya, Abs. 58544
AUTHOR: Molodyan I.P.
TITLE; Electrical properties of (InSb)x-(InTe)-x section alloys
CITED SOURCE: Tr. 3-y konferentsii molodykh uchenykh Moldsvii. Yestestvtekhn. n. Vyp. 1. Kishinev, Kartya Moldovenyaske, 1964, 33 TOFIC TROS: Vandium, ternary alloy, indium alloy, antimonide, telluride temperature dependence, alloy, ELECTRIC PROFERTY METAL PHASE SYSTEM TRANSIATION: The temperature dependence of electroconductivity, the differential thermoelectromotive force, and Hall coefficient at from 20 to 550° were determined for the section (InSb) _x -(InTe) _{1-x} in the ternary system In Sb-Te with changes in the compound ratio. The alloys were first studied radiographically and metallographically. In the 0.85(x<1.0 region solutions with a structure of zinc blend were formed. The alloy with x 0.25 is single-phased and corresponds to the InuStructure formed. The alloy with x 0.25 is single-phased and corresponds to the InuStructure of Inustruc
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